

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Craig P. Sayers et al

Confirmation No.: 5311

Application No.: 10/798187

Examiner: N/a

Filing Date: Mar 10, 2004

Group Art Unit: 2122

Title: Method And Apparatus For Processing Descriptive Statements

Mail Stop Amendment  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

☒ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 15 July 2005

OR

☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_  
Number of pages: \_\_\_\_\_

Typed Name: Ramona J. Zaya

Signature: *RJ Zaya*

Respectfully submitted,

Craig P. Sayers et al

By *Marc Schuyler*

Marc Schuyler

Attorney/Agent for Applicant(s)

Reg. No. 35,675

Date: 15 July 2004

Telephone No.: 650 857 3359

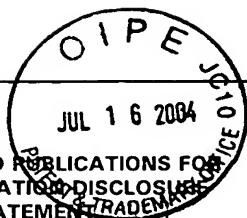
## PATENT APPLICATION

Sheet 1 of 9

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)



ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

5311

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

2122

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	M. Atreya. Digital Signatures and Digital Envelopes, RSA Security white paper. <a href="http://www.rsasecurity.com/products/bsafe/whitepapers/Article5-SignEvn.pdf">http://www.rsasecurity.com/products/bsafe/whitepapers/Article5-SignEvn.pdf</a> , November 2003
1R	M. Bellare and D. Micciancio. A New Paradigm for Collision-Free Hashing: Incrementally at Reduced Cost. Advances in Cryptography - EuroCrypto 97, Lecture Notes in Computer Science, Vol. 1233, pp. 163-192. Springer Verlag, New York, 1997
1S	D. Clarke, S. Devadas, B. Gassend, M. Van Dijk, and E Suh. Incremental Multiset Hash Functions and Their Application to Memory Integrity Checking. Asiacrypt 2003 Conference, pp. 188-207 November 2003

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	2A				
	2B				
	2C				
	2D				
	2E				
	2F				
	2G				
	2H				
	2I				
	2J				
	2K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	2L					
	2M					
	2N					
	2O					
	2P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	Federal Information Processing Standard Publication 180-1, US Department of Commerce/N.I.S.T., National Technical Information Service, Springfield, VA FIPS 180-1: Secure harh standard, April 1995
2R	J. Grant and D. Beckett. RDF Test Cases, W3C working draft. <a href="http://w3.org/TR/2002/WD-rdf-testcaes-20020429">http://w3.org/TR/2002/WD-rdf-testcaes-20020429</a> , 29 April 2002
2S	G. Klyne and J. Carroll. Resource Description Framework (RDF): Concept and Abstract Syntax. <a href="http://w3.org/TR/rdf-concepts">http://w3.org/TR/rdf-concepts</a> , 08 November 2002

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	3A				
	3B				
	3C				
	3D				
	3E				
	3F				
	3G				
	3H				
	3I				
	3J				
	3K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	3L					
	3M					
	3N					
	3O					
	3P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	3Q	O. Lassila and R. Swick. Resource Description Framework (RDF) Model and Syntax Specification, W3C recommendation. <a href="http://w3.org/TR/1999/RED-rdf-syntax-19990222">http://w3.org/TR/1999/RED-rdf-syntax-19990222</a> , 22 February 1999
	3R	S. Melnik. RDF API Draft <a href="http://www-db.stanford.edu/melnik/rdf/api.html#digest">http://www-db.stanford.edu/melnik/rdf/api.html#digest</a> , 19 January 2001
	3S	Patrick Hayes. RDf Semantics. <a href="http://www.w3.org/TR/2003/WD-rdf-mt-20030905">http://www.w3.org/TR/2003/WD-rdf-mt-20030905</a> , 05 September 2003

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	4A				
	4B				
	4C				
	4D				
	4E				
	4F				
	4G				
	4H				
	4I				
	4J				
	4K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	4L					
	4M					
	4N					
	4O					
	4P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

4Q	R. Rivest. Request for Comments (RDF) 1321: The MD5 Message Digest Algorithm. <a href="http://www.ietf.org/rfc/rfc1321.text">http://www.ietf.org/rfc/rfc1321.text</a> , April 1992
4R	D. Wagner. A Generalized Birthday Problem, Crypto August 18-22, 2002, Lecture Notes in Computer Science, vol. 2442, pages 288-303, Springer-Verlag, Berlin Heidelberg, 2002
4S	A.L. Zobrist. A Hashing Method With Applications For Game Playing. Technical Report 88, Computer Science Dep't. University of Wisconsin Madison, 1970. Reprint in International Computer Chess Association Journal Vol. 13, No. 2 pp.69-73, 1990

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	5A				
	5B				
	5C				
	5D				
	5E				
	5F				
	5G				
	5H				
	5I				
	5J				
	5K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	5L					
	5M					
	5N					
	5O					
	5P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

5Q	David Beckett. The Design and Implementation of the Redland RDF Application Framework. Proceedings of the Tenth International Conference on World Wide Web. Hong Kong, Hong Kong. pages 449 - 456 in 2001. ISBN: 1-58113-348-0
5R	D. Banks, S. Cayzer, L. Dickinson, and D. Reynolds. The ePerson Snippet Manager: a Semantic Web application. Technical Report HPL-2002-328, Hewlett Packard Company, 22 December 2002
5S	M. Bellare, O. Goldreich, and S. Goldwasser. Incremental Cryptography: The Case of Hashing and Signing. Advances in Cryptography- Crypto'94. Proceedings, Lecture Notes in Computer Science, Vol. 839, Springer Verlag, New York 1994

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	6A				
	6B				
	6C				
	6D				
	6E				
	6F				
	6G				
	6H				
	6I				
	6J				
	6K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	6L					
	6M					
	6N					
	6O					
	6P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

6Q	J. Carroll. Signing RDF Graphs. Technical Report HPL-2003-142, Hewlett Packard Company, 7 September 2003
6R	R. L. Rivest, A Shamir, and L. M. Adelman. A Method for Obtaining Digital Signatures and Public-Key Cryptosystems. Communication of the ACM, Volume 21, Issue 2 (February 1978, pages 120- 126 ISSN:0001-0782 New York, NY, USA
6S	Bellare et al. The Security of the Cipher Block Chaining Message Authentication Code. Journal of Computer and System Science, Vol. 61, No. 3, December 2000, pages 362-399

EXAMINER

DATE CONSIDERED

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	200316515-1	10/798,187	
	APPLICANT		
	Sayers et al.		
	FILING DATE	GROUP	
	10 March 2004		

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	7A				
	7B				
	7C				
	7D				
	7E				
	7F				
	7G				
	7H				
	7I				
	7J				
	7K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	7L					
	7M					
	7N					
	7O					
	7P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

7Q	Haber et al. Secure Names for Bit-Strings. Proceedings of the 4th ACM Conference on Computer and Communications Security. Zurich, Switzerland, pp. 28-35 published in 1997 ISBN: 0-89791-912-2
7R	Phillip Rogaway. Authenticated-Encryption with Associated-Data. Proceedings of the 9th ACM Conference on Computer and Communication Security, Washington, DC, USA, pp. 98-107, published in 2002. ISBN: 1-58113-612-9
7S	Conen et al. Exchanging Semantics with RDF. Information Age Economy Fifth International Conference of Wirtschaftsinformatik Augsburg, September 19-21, 2001. ISBN: 3-7908-1427-X Physica-Verlag

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	8A				
	8B				
	8C				
	8D				
	8E				
	8F				
	8G				
	8H				
	8I				
	8J				
	8K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	8L					
	8M					
	8N					
	8O					
	8P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

8Q	Sayers et al. AP Pragmatic Approach to Storing and Distributing RDF in Context Using Snippets. Technical Reports HPL-2003-231, Hewlett Packard Company, 7 December 2003
8R	R. L. Rivest. The RC5, Encryption Algorithm. Proceedings of the 1994, Leuven Workshop Encryption. Springer 1995. pp. 86-96
8S	Ralph R. Swick. Putting it Together: RDF: Weaving the web of discovery, netWorker, Volume 3, Issue 2, pp: 21-25. June 1999 ISSN:1091-3556

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200316515-1

APPLICATION NO.

10/798,187

CONFIRMATION NO.

APPLICANT

Sayers et al.

FILING DATE

10 March 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	9A				
	9B				
	9C				
	9D				
	9E				
	9F				
	9G				
	9H				
	9I				
	9J				
	9K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	9L					
	9M					
	9N					
	9O					
	9P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

9Q	Broekstra et al. Enabling Knowledge Representation on the Web by Extending RDF Schema. Proceedings of the Tenth International Conference on World Wide Web. Hong Kong, Hong Kong. pp. 467-478. Published in 2001. ISBN:1-158113-348-0
9R	Karvounarakis et al. RQL: A Declarative Query Language for RDF. Proceedings of the Eleventh International Conference on World Wide Web. Honolulu, Hawaii, USA. pp. 592-603. Published 2002. ISBN: 1-58113-449-5
9S	Patel-Schneider et al. The Yin/Yang Web: XML Syntax and RDF Semantics. Proceedings of the Eleventh International Conference on World Wide Web. Honolulu, Hawaii, USA. pp. 443-453. Published 2002. ISBN: 1-58113-449-5

EXAMINER

DATE CONSIDERED